

ECE 345 / ME 380: Introduction to Control Systems

Collaborative Quiz #0 Grading Sheet

Dr. Oishi

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20/25

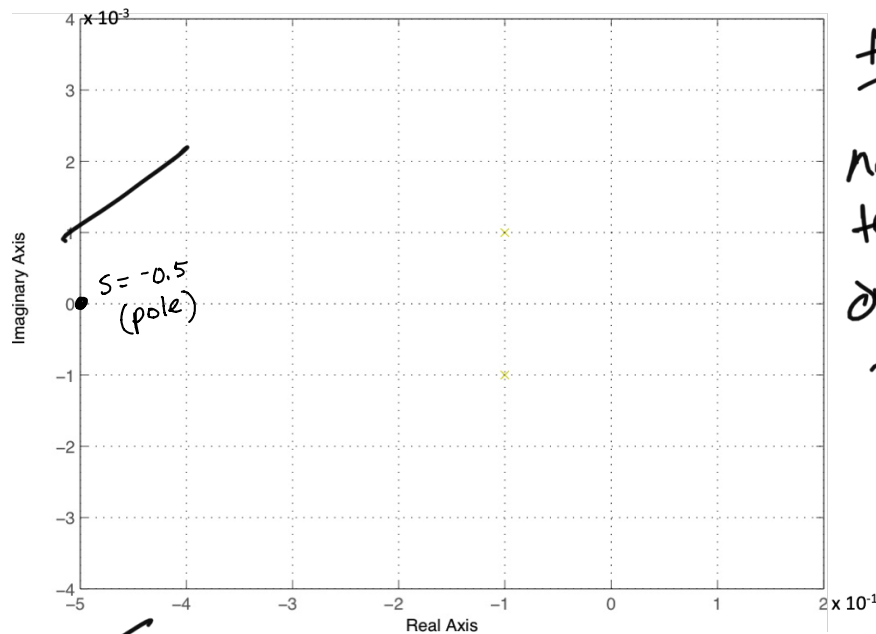
This quiz is open-note and open-book. Computational tools (Matlab, calculators) are allowed. No partial credit will be awarded. For each of the questions, clearly write the correct answer.

In-Class Questions

1. (c) $G_{\text{satellite}}(s) = G_{\text{thruster}}(s) \cdot \frac{n^2}{s^2 + n^2}$

2. 1 pole at $s = 0.5$, 0 zeros

two additional poles



3. (a) $f_{ss} = 1$

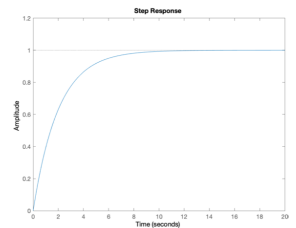
4. (c) $z(t) = \mathcal{L}^{-1}\{G_{\text{satellite}}(s) \cdot R(s)\}$

5. (c) Because it is the only one that is stable (like our function). We ruled out

(b) because there's no trigonometric terms in our function, and ruled out

(a) because it grows to infinity.

GS



(c)

Statement of Effort

By providing my name below, I pledge that I have written this quiz as per the indicated instructions, and fully participated in the group.

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